

10km optical module maximum transmission distance



Overview

QSFP28-100G-10KM Module supports link lengths of up to 10km over a standard pair of G. 652 single-mode fiber with duplex LC connectors. It is designed for optical communication applications compliant to 100GBASE-LR4 of the IEEE. In 10G network design, transmission distance is often the first constraint engineers encounter. Links that exceed multimode limits but do not justify long-haul optics require a solution that balances reach, cost, and deployment simplicity. In real-world. The QSFP28 LR4 is a hot-pluggable, four-channel, and full-duplex optical transceiver module designed for long-distance transmission up to 10 km in the 100G Ethernet network with a working bandwidth of 1295nm to 1310nm. It utilizes four EML lasers with CWDM wavelengths (5nm wavelength spacing, requiring a TEC cooler to control temperature) and achieves a single-wave rate of 106.25Gbps based on PAM4 modulation. But even at that there are specialized modules that can go even further There are different types of SFP transceiver, two.

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QSFP28-100G-10KM Module is 100G 1310nm 10km QSFP28 optical transceiver with LC connector applied for huawei series switches
 QSFP28-100G-10KM Module Product Overview
 QSFP28-100G ...



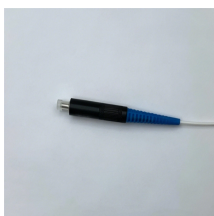
The "LR" in QSFP-DD LR4 optical module denotes long-distance transmission of 10km. It utilizes four EML lasers with CWDM wavelengths (5nm wavelength spacing, requiring a TEC cooler ...



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In 10G SFP+ modules, "LR" stands for Long Reach and specifically refers to a standardized transmission distance of up to 10km over single-mode fiber. It is not a marketing label, but a distance ...



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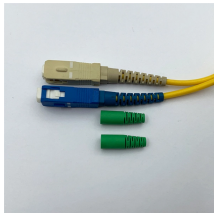
The 100G QSFP28 LR4 optical module is a high-speed optical transceiver compliant with the IEEE 802.3ba standard, specifically designed for long-distance 100G Ethernet transmission. It operates in ...



Can it go the distance? Choosing the right Fiber Optic Cable Core Type for your present and future needs the chart provided, you can see different Fiber core types have vastly different ...



Operating at 1310nm wavelength, it provides reliable transmission up to 10km, making it ideal for long-reach interconnects between switches, routers, and servers.



In this article, we'll show you 10 simple, effective rules to help you get the maximum range from your SFP+ connections: choosing the right module, and fiber, as well as clever network ...



Standard LC connector Support for Full Duplex operating mode and Gigabit Ethernet technology Maximum transmission distance of 10 km Use of Single-Mode Optical Fiber (SMF)



DESCRIPTIONS ETU-link Transceiver is a high-performance, cost-effective module for optical data communication applications supporting 400G Ethernet. The ETU-link is designed to operate in switch ...

Contact Us

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